



RAFAEL DESCOMBES

MECHANICAL ENGINEER
SPECIALISING IN INTERNATIONAL BUSINESS

CONTACT

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Full driving licence
Toulouse, France
Rafael DESCOMBES

SKILLS

Design & CAD:

SolidWorks, CATIA V5,
3DEXPERIENCE

Simulation & Engineering

Analysis: RDM6, ANSYS,
Abaqus

Programming & Data:

Python, MATLAB, FORTRAN

Engineering Methods &

Project Management: FMEA,
Life Cycle Assessment (LCA),
Gantt charts

Commercial Skills:

Market research, international
prospecting and business
negotiation

LANGUAGES

French: Native

English: B2 | TOEIC: 820/990

Spanish: Basic knowledge

INTERESTS

Football: 12 years of club
football, including team
captain responsibilities

Outdoor Sports: Triathlon,
trail running and wild
camping

PROFILE

Mechanical engineering graduate from **INSA Toulouse**, with three years of aerospace industry experience at Electroimpact and international experience in the **United Kingdom and Switzerland**. Currently combining technical expertise with **commercial skills to support international business development**.

PROFESSIONAL EXPERIENCE

- EXPORT DEVELOPMENT PROJECT** 2026 - PRESENT
MEIA ASSOCIATION (INSA Toulouse, France)
Supporting companies with export development through market research, prospecting and international growth strategy. 
- BUSINESS & SERVICE MANAGEMENT APPRENTICE** 2026 - PRESENT
ELECTROIMPACT (Colomiers, France)
Training in business and service management alongside the manager who has mentored me for the past three years. 
- MECHANICAL DESIGN ENGINEERING APPRENTICE** 2023 - 2026
ELECTROIMPACT (Colomiers, France)
Designed aerospace tooling, contributed to tender proposals and provided technical support in coordination with production teams. 
- RESEARCH INTERN - COMPOSITE MECHANICS** FEB - APR 2026
EPFL - GR-MeC Laboratory (Lausanne, Switzerland)
Developed a tool to predict the service life of composite materials using experimental test data. 
- INTERNATIONAL ENGINEERING INTERN** JAN - MAR 2025
ELECTROIMPACT UK (Liverpool, United Kingdom)
Developed an automated assembly workstation, from design through to production and technical documentation. 
- DESIGN TECHNICIAN INTERN** JAN - MAR 2023
LASER RHÔNE ALPES (Grenoble, France)
Designed laser welding fixtures and produced prototypes using 3D printing and CNC machining. 

EDUCATION

- Specialised Postgraduate Programme in International Industrial Business Engineering (MSIAI)** 2026 - PRESENT
INSA Toulouse
Focus: International industrial business development, purchasing, industrial negotiation and export control. 
- Engineering Degree in Mechanical Engineering, Master's Level** 2023 - 2026
INSA Toulouse
Specialisation: Computational Mechanics — nonlinear mechanics, artificial intelligence, multiscale modelling and materials. 
- Research Master's Degree in Mechanics of Materials and Structures (SMMS)** 2025 - 2026
Toulouse III University - Paul Sabatier
Focus: Mechanics of materials and structures. 
- University Bachelor of Technology in Mechanical and Manufacturing Engineering (BUT)** 2021-2023
Toulouse University Institute of Technology
Specialisations: Aeronautical engineering techniques and eco-design. Graduated with honours. 